

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	GANTZ 1
Doc ID	1431087

All Electric Logs Run

Dual Induction
Micro
Compensated Density Neutron
v

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	GANTZ 1
Doc ID	1431087

Tops

Name	Top	Datum
Anhy.	1645	(+ 721)
Base Anhy.	1680	(+ 686)
Topeka	3451	(-1085)
Lansing	3802	(-1436)
BKC	4133	(-1767)
Marmaton	4172	(-1806)
Pawnee	4238	(-1872)
Ft. Scott	4312	(-1946)
Cherokee Sh.	4337	(-1971)
Miss.	4400	(-2034)
LTD	4555	(-2189)





**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665  
 PHONE:785-324-1041 FAX:785-483-1087  
 EMAIL: cementing@ruraltel.net

Date: 9/18/2018  
 Invoice # 1010  
 P.O.#:  
 Due Date: 10/18/2018  
 Division: Russell

# Invoice

**Contact:**  
 Palomino Petroleum Inc  
**Address/Job Location:**

4924 SE 84th  
 Newton Ks 67114

**Reference:**  
 GRANTZ 1 SEC 13-19-25

**Description of Work:**  
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 657.71	Yes				
Common-Class A	138	\$ 2,095.65	Yes				
POZ Mix-Standard	92	\$ 474.74	Yes				
Calcium Chloride	8	\$ 330.26	Yes				
Bulk Truck Matl-Material Service Charge	238	\$ 175.45	Yes				
Flo Seal	50	\$ 73.72	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 56.39	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 43.86	Yes				

**Invoice Terms:**

Net 30

	<i>SubTotal:</i>	\$ 3,907.79
	<i>Discount Available ONLY if Invoice is Paid &amp; Received within listed terms of invoice:</i>	\$ (97.69)
		SubTotal for Taxable Items: \$ 3,810.09
		SubTotal for Non-Taxable Items: \$ -

6.50% Ness County Sales Tax

	Total:	\$ 3,810.10
	Tax:	\$ 247.66
	<b>Amount Due:</b>	<b>\$ 4,057.76</b>
	<b>Applied Payments:</b>	
	<b>Balance Due:</b>	<b>\$ 4,057.76</b>

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1010

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-18-18	13	19	25	NESS	KS		9:45P
Lease				Location		Well No.	
Garant 2				Laind 5 1/2 3/4 E 1 into		1	
Contractor				Owner			
UJW #8				To Quality Oilwell Cementing, Inc.			
Type Job				You are hereby requested to rent cementing equipment and furnish			
Rotary Plug				cementer and helper to assist owner or contractor to do work as listed.			
Hole Size		T.D.		Charge To			
7 7/8		4554		Palomino Petroleum			
Csg.		Depth		Street			
Tbg. Size		Depth		City State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered			
				230 60/40 4 1/2 1/4 #10			
Meas Line		Displace		Common			
				138			
Pumptrk		No.		Cement		Pos. Mix	
20				Craig		92	
Bulktrk		No.		Driver		Gel.	
				Brett		8	
Bulktrk		No.		Driver		Calcium	
9				Jock			
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt			
Rat Hole				Flowseal			
30SK				50#			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
1st 1690 50SK				Handling			
2nd 870 80SK				238			
3rd 260 50SK				Mileage			
4th 60 20SK				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge			
				17 plug			
				Mileage			
				Tax			
				Discount			
				Total Charge			
Signature							
[Signature]							



RECEIVED  
 SEP 15 2018

Date: 9/10/2018  
 Invoice # 944  
 P.O.#:  
 Due Date: 10/10/2018  
 Division: Russell

**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665  
 PHONE:785-324-1041 FAX:785-483-1087  
 EMAIL: cementing@ruraltel.net

# Invoice

**Contact:**  
 Palomino Petroleum Inc  
**Address/Job Location:**  
 4924 SE 84th  
 Newton Ks 67114

**Reference:**  
 GRANTZ 1 SEC 13-19-25

**Description of Work:**  
 SURFACE JOB

**Services / Items Included:**

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 657.71	No				
Common-Class A	120	\$ 1,822.31	Yes				
Calcium Chloride	6	\$ 247.69	Yes				
POZ Mix-Standard	30	\$ 154.81	Yes				
Bulk Truck Matl-Material Service Charge	170	\$ 125.32	No				
Premium Gel (Bentonite)	3	\$ 64.13	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 56.39	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 43.86	No				

**Invoice Terms:**

Net 30

	SubTotal:	\$ 3,172.23
<i>Discount Available ONLY if Invoice is Paid &amp; Received within listed terms of invoice:</i>	\$	(79.31)
<hr/>		
	SubTotal for Taxable Items:	\$ 2,231.72
	SubTotal for Non-Taxable Items:	\$ 861.21
<hr/>		
	Total:	\$ 3,092.92
	Tax:	\$ 145.06
	<b>Amount Due:</b>	<b>\$ 3,237.98</b>
	<b>Applied Payments:</b>	
	<b>Balance Due:</b>	<b>\$ 3,237.98</b>

6.50% Ness County Sales Tax

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# QUALITY OILWELL CEMENTING, INC.

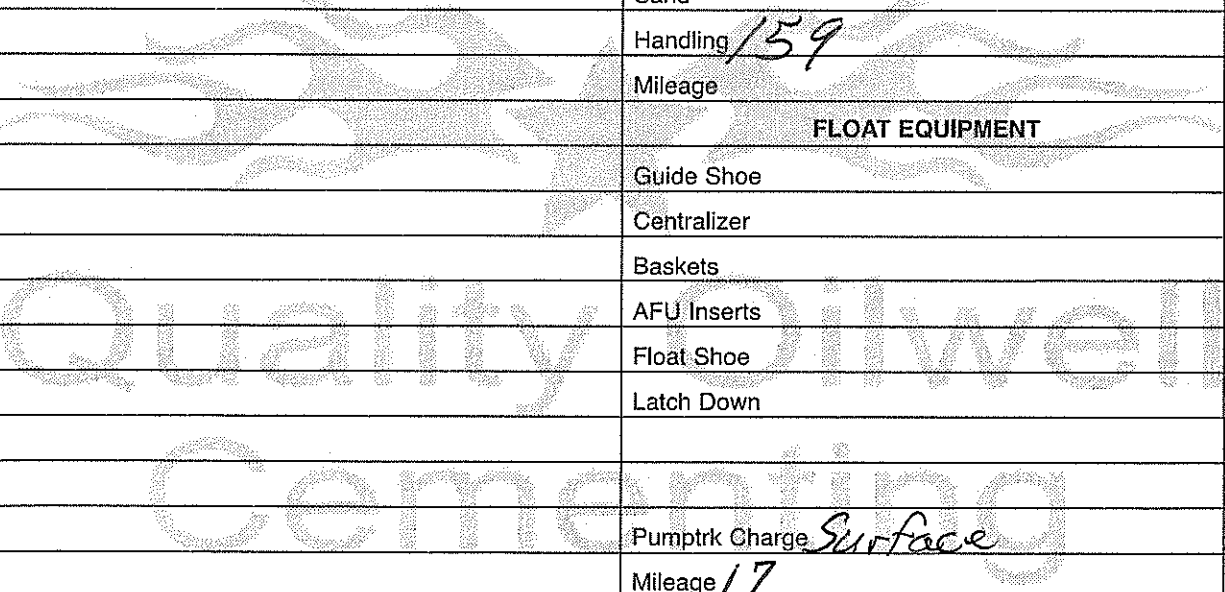
Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 944

Date	9-10-18	Sec.	13	Twp.	19	Range	25	County	Ness	State	Ks	On Location		Finish	3:15 PM
Lease								Location		Laird, Ks - W to Lrd, 5 1/2 S 1E, N/E					
Gantz								Well No.		1					
Contractor								Owner		to well					
WW #8								To Quality Oilwell Cementing, Inc.		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job								Charge To		Palamino Petroleum					
Surface								T.D.		216'					
Hole Size								Depth		216'					
12 1/4"								Street							
Csg.								City		State					
Tbg. Size								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Tool								Cement Amount Ordered		150 80/20 3+2					
Cement Left in Csg.								Shoe Joint		15'					
15'								Displace		12 3/4 PLS					
Meas Line								EQUIPMENT		Common 20					
Pumptrk 20								Cementer		Doug					
No. Helper								Poz. Mix		30					
Bulktrk 9								Driver		Jim					
No. Driver								Gel.		3					
Bulktrk p.u.								Driver		Rick					
No. Driver								Calcium		6					
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal		Cement did Circulate					
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling		159					
								Mileage							
								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge		Surface					
								Mileage		17					
								Tax							
								Discount							
								Total Charge							
X Signature															





# Company: Palomino Petroleum, Inc.

## Lease: Gantz #1

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**15**  
2018

**DST #1**      **Formation: Marmaton**      **Test Interval: 4122 - 4250'**      **Total Depth: 4250'**  
Time On: 20:18 09/15      Time Off: 03:00 09/16  
Time On Bottom: 22:53 09/15      Time Off Bottom: 00:53 09/16

Electronic Volume Estimate:  
16'

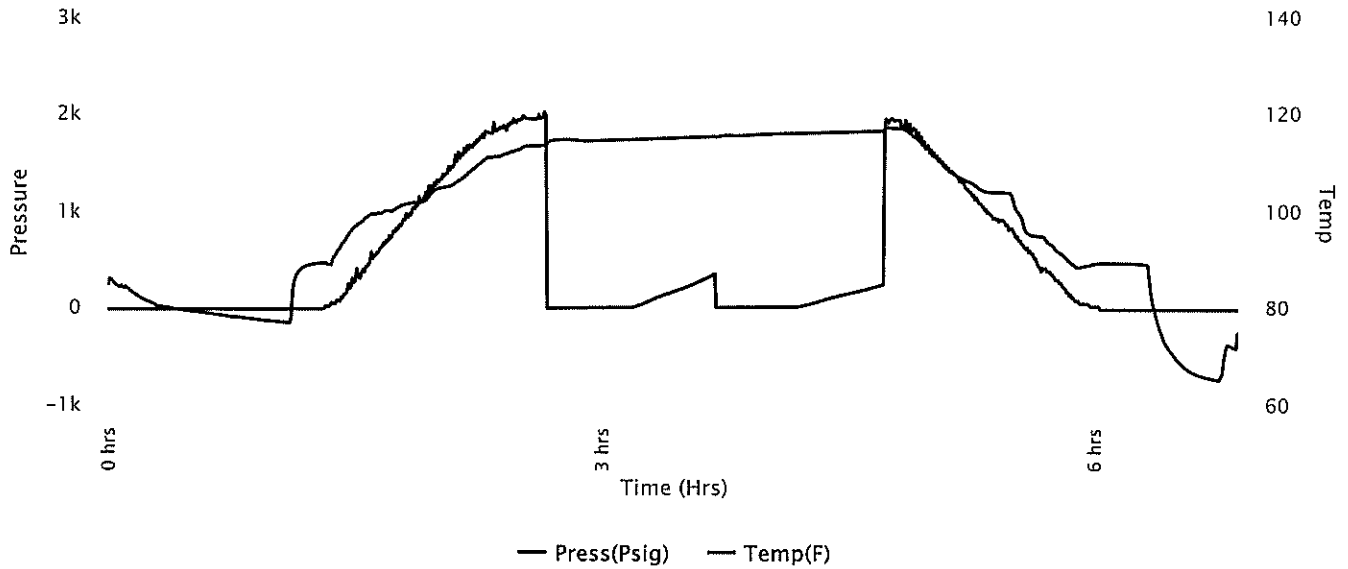
1st Open  
Minutes: 30  
Current Reading: .5" at 30 min  
Max Reading: .5"

1st Close  
Minutes: 30  
Current Reading: 0" at 30 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading: 0" at 30 min  
Max Reading: 0"

2nd Close  
Minutes: 30  
Current Reading: 0" at 30 min  
Max Reading: 0"

Inside Recorder





# Company: Palomino Petroleum, Inc.

## Lease: Gantz #1

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**15**  
2018

**DST #1**      **Formation:** Marmaton      **Test Interval:** 4122 - 4250'      **Total Depth:** 4250'  
Time On: 20:18 09/15      Time Off: 03:00 09/16  
Time On Bottom: 22:53 09/15      Time Off Bottom: 00:53 09/16

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
20	0.0984	M	0	0	0	100

Total Recovered: 20 ft  
Total Barrels Recovered: 0.0984

**Reversed Out**  
NO

### Recovery at a glance



Initial Hydrostatic Pressure	1973	PSI	
Initial Flow	15 to 23	PSI	BBL 0.05
<b>Initial Closed in Pressure</b>	<b>373</b>	<b>PSI</b>	
Final Flow Pressure	25 to 30	PSI	
<b>Final Closed in Pressure</b>	<b>265</b>	<b>PSI</b>	0
Final Hydrostatic Pressure	1972	PSI	
Temperature	117	°F	
Pressure Change Initial Close / Final Close	29.2	%	

● Gas 0%    ● Oil 0%    ● Water 0%    ● Mud 100%



**Company: Palomino Petroleum,  
Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**

Test Complete

**DATE**

September

**15**

2018

DST #1

Formation:  
Marmaton

Test Interval: 4122 -  
4250'

Total Depth: 4250'

Time On: 20:18 09/15

Time Off: 03:00 09/16

Time On Bottom: 22:53 09/15 Time Off Bottom: 00:53 09/16

**BUCKET MEASUREMENT:**

1st Open: Surface blow building to a 3/4 in. blow.

1st Close: No blow back.

2nd Open: No blow.

2nd Close: No blow back.

**REMARKS:**

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



# Company: Palomino Petroleum, Inc.

## Lease: Gantz #1

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**15**  
2018

**DST #1**      **Formation:** Marmaton      **Test Interval:** 4122 - 4250'      **Total Depth:** 4250'  
Time On: 20:18 09/15      Time Off: 03:00 09/16  
Time On Bottom: 22:53 09/15      Time Off Bottom: 00:53 09/16

### Down Hole Makeup

<b>Heads Up:</b> 15.84 FT	<b>Packer 1:</b> 4117.25 FT
<b>Drill Pipe:</b> 3986.78 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4122.25 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4106.67 FT
<b>Collars:</b> 118.74 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4224 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 127.75	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 94.75 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 27 FT <i>4 1/2-FH</i>	



**Company: Palomino Petroleum,  
Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**15**  
2018

<b>DST #1</b>	<b>Formation:</b> Marmaton	<b>Test Interval: 4122 - 4250'</b>	<b>Total Depth: 4250'</b>
	Time On: 20:18 09/15	Time Off: 03:00 09/16	
	Time On Bottom: 22:53 09/15	Time Off Bottom: 00:53 09/16	

**Mud Properties**

**Mud Type:** Chemical    **Weight:** 9.3    **Viscosity:** 51    **Filtrate:** 10.0    **Chlorides:** 6,500 ppm



# Company: Palomino Petroleum, Inc.

## Lease: Gantz #1

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**16**  
2018

**DST #2**      **Formation: Mississippi**      **Test Interval: 4334 - 4425'**      **Total Depth: 4425'**  
Time On: 21:53 09/16      Time Off: 04:09 09/17  
Time On Bottom: 00:03 09/17      Time Off Bottom: 02:03 09/17

Electronic Volume Estimate:  
43'

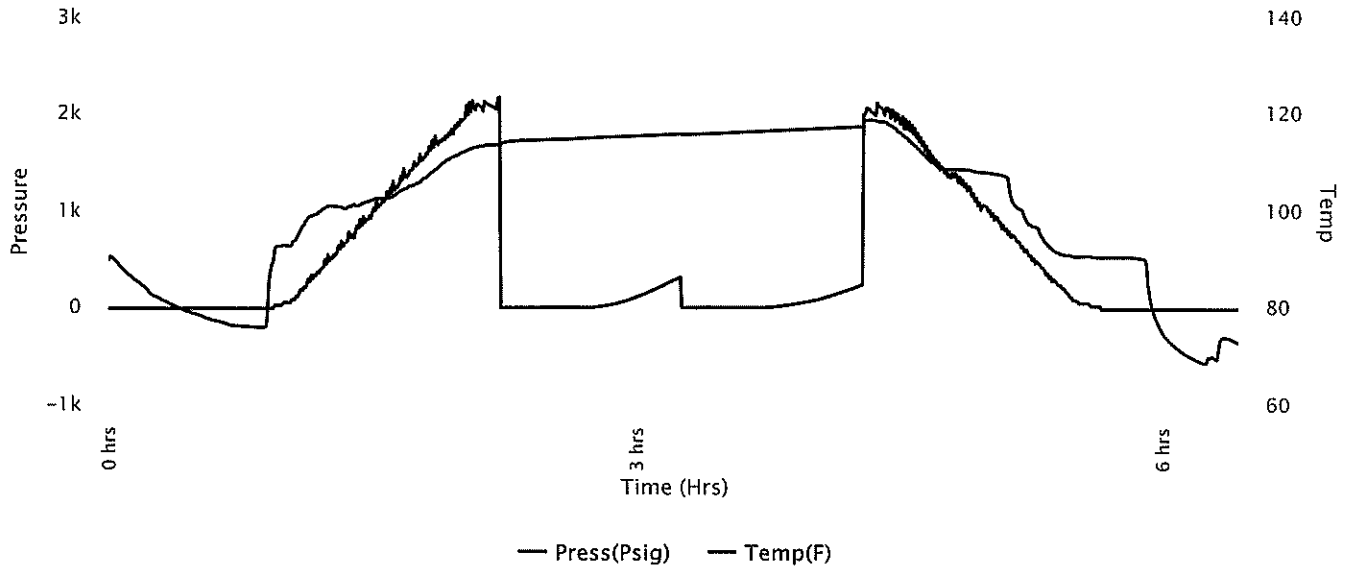
1st Open  
Minutes: 30  
Current Reading:  
1.3" at 30 min  
Max Reading: 1.3"

1st Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

Inside Recorder





# Company: Palomino Petroleum, Inc.

## Lease: Gantz #1

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**16**  
2018

**DST #2**      **Formation: Mississippi**      **Test Interval: 4334 - 4425'**      **Total Depth: 4425'**  
Time On: 21:53 09/16      Time Off: 04:09 09/17  
Time On Bottom: 00:03 09/17      Time Off Bottom: 02:03 09/17

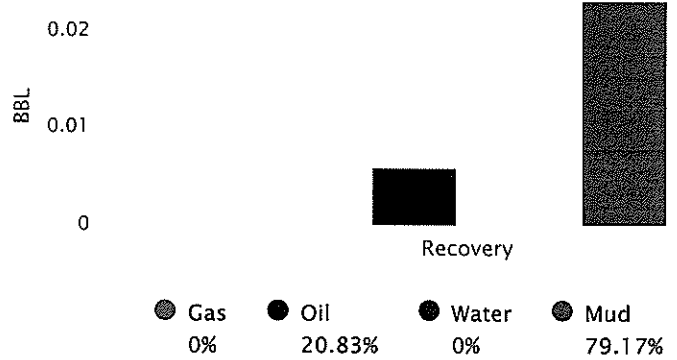
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1	0.00492	O	0	100	0	0
5	0.0246	SLOCM	0	5	0	95

Total Recovered: 6 ft  
Total Barrels Recovered: 0.02952

**Reversed Out**  
NO

### Recovery at a glance



Initial Hydrostatic Pressure	2067	PSI
Initial Flow	13 to 17	PSI
<b>Initial Closed in Pressure</b>	<b>333</b>	<b>PSI</b>
Final Flow Pressure	19 to 22	PSI
<b>Final Closed in Pressure</b>	<b>254</b>	<b>PSI</b>
Final Hydrostatic Pressure	2064	PSI
Temperature	118	°F
Pressure Change Initial Close / Final Close	23.6	%





**Company: Palomino Petroleum,  
Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**

Test Complete

**DATE**

September

**16**

2018

**DST #2**

**Formation:  
Mississippi**

**Test Interval: 4334 -  
4425'**

**Total Depth: 4425'**

Time On: 21:53 09/16

Time Off: 04:09 09/17

Time On Bottom: 00:03 09/17 Time Off Bottom: 02:03 09/17

**BUCKET MEASUREMENT:**

1st Open: Surface blow building to a 1 in. blow.

1st Close: No blow back.

2nd Open: Surface blow lasting 22 mins.

2nd Close: No blow back.

**REMARKS:**

Tool Sample: 0% Gas 5% Oil 0% Water 95% Mud



# Company: Palomino Petroleum, Inc.

## Lease: Gantz #1

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**16**  
2018

**DST #2**      **Formation:** Mississippi      **Test Interval:** 4334 - 4425'      **Total Depth:** 4425'  
Time On: 21:53 09/16      Time Off: 04:09 09/17  
Time On Bottom: 00:03 09/17      Time Off Bottom: 02:03 09/17

### Down Hole Makeup

<b>Heads Up:</b> 24.86 FT	<b>Packer 1:</b> 4329.07 FT
<b>Drill Pipe:</b> 4207.62 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4334.07 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4318.49 FT
<b>Collars:</b> 118.74 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4404 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 90.93	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 62.93 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 22 FT <i>4 1/2-FH</i>	



**Company: Palomino Petroleum,  
Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**16**  
2018

<b>DST #2</b>	<b>Formation:</b> Mississippi	<b>Test Interval:</b> 4334 - 4425'	<b>Total Depth:</b> 4425'
	Time On: 21:53 09/16	Time Off: 04:09 09/17	
	Time On Bottom: 00:03 09/17	Time Off Bottom: 02:03 09/17	

**Mud Properties**

**Mud Type:** Chemical    **Weight:** 9.1    **Viscosity:** 49    **Filtrate:** 10.8    **Chlorides:** 7,800 ppm



# Company: Palomino Petroleum, Inc.

## Lease: Gantz #1

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**17**  
2018

**DST #3**      **Formation: Mississippi**      **Test Interval: 4334 - 4434'**      **Total Depth: 4434'**  
Time On: 09:38 09/17      Time Off: 16:23 09/17  
Time On Bottom: 12:13 09/17      Time Off Bottom: 14:13 09/17

Electronic Volume Estimate:  
79'

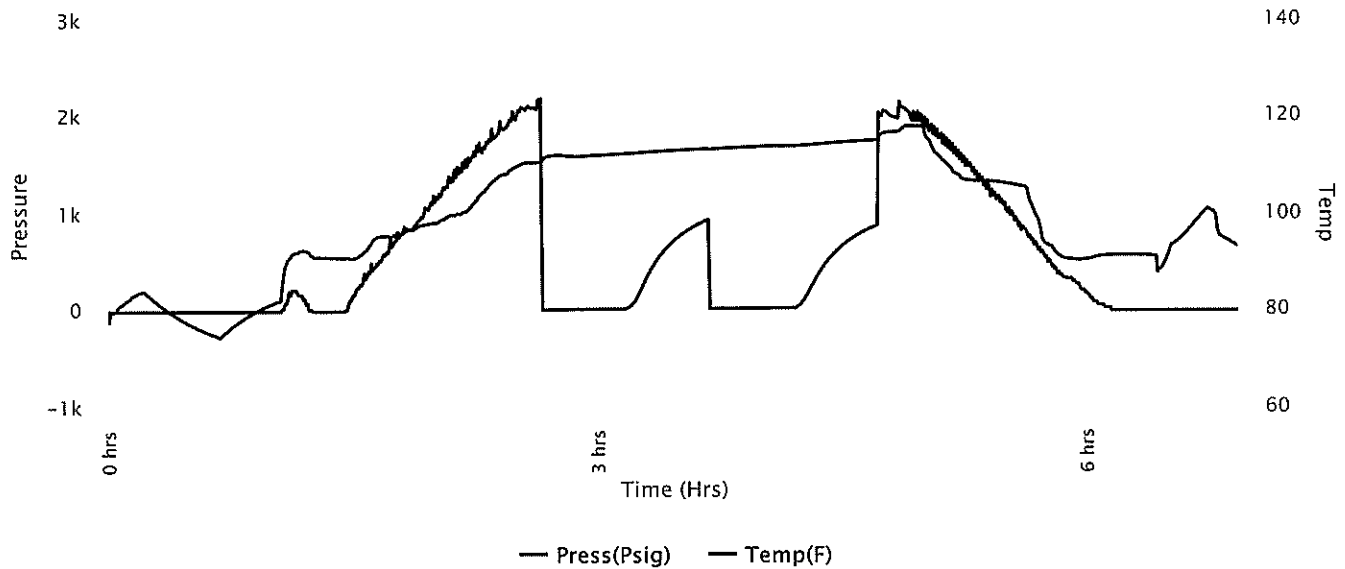
1st Open  
Minutes: 30  
Current Reading:  
.9" at 30 min  
Max Reading: .9"

1st Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading:  
1.5" at 30 min  
Max Reading: 1.5"

2nd Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

Inside Recorder





**Company: Palomino Petroleum, Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
 County: NESS  
 State: Kansas  
 Drilling Contractor: WW Drilling, LLC - Rig 8  
 Elevation: 2361 GL  
 Field Name: Chrif East  
 Pool: WILDCAT  
 Job Number: 231

**Operation:**  
 Test Complete

**DATE**  
 September  
**17**  
 2018

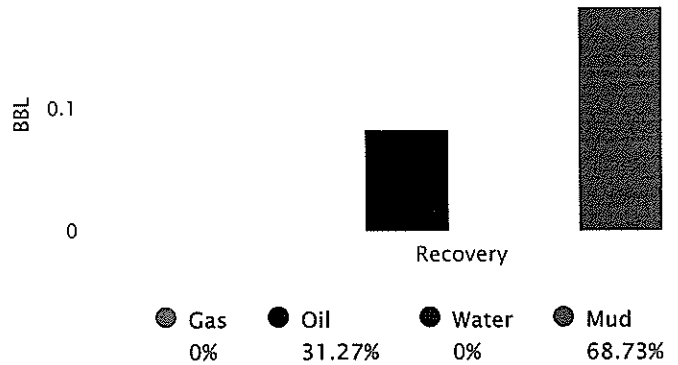
**DST #3**      **Formation: Mississippi**      **Test Interval: 4334 - 4434'**      **Total Depth: 4434'**  
 Time On: 09:38 09/17      Time Off: 16:23 09/17  
 Time On Bottom: 12:13 09/17      Time Off Bottom: 14:13 09/17

<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLS</u>					
10	0.0492	O	0	100	0	0
45	0.2214	SLOCM	0	16	0	84

Total Recovered: 55 ft  
 Total Barrels Recovered: 0.2706

**Reversed Out:**  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	2089	PSI
Initial Flow	15 to 27	PSI
<b>Initial Closed in Pressure</b>	<b>952</b>	<b>PSI</b>
Final Flow Pressure	27 to 35	PSI
<b>Final Closed in Pressure</b>	<b>891</b>	<b>PSI</b>
Final Hydrostatic Pressure	2086	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	6.4	%



**Company: Palomino Petroleum,  
Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**

Test Complete

**DATE**

September

**17**

2018

**DST #3**

**Formation:  
Mississippi**

**Test Interval: 4334 -  
4434'**

**Total Depth: 4434'**

Time On: 09:38 09/17

Time Off: 16:23 09/17

Time On Bottom: 12:13 09/17

Time Off Bottom: 14:13 09/17

**BUCKET MEASUREMENT:**

1st Open: 1/4 in. blow building to a 1 1/2 in. blow.

1st Close: No blow back.

2nd Open: Surface blow building to a 1 in. blow.

2nd Close: No blow back.

**REMARKS:**

Tool Sample: 0% Gas 34% Oil 0% Water 66% Mud

Gravity: 34.5 @ 60 °F



**Company: Palomino Petroleum, Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**17**  
2018

**DST #3**      **Formation:** Mississippi      **Test Interval:** 4334 - 4434'      **Total Depth:** 4434'  
Time On: 09:38 09/17      Time Off: 16:23 09/17  
Time On Bottom: 12:13 09/17      Time Off Bottom: 14:13 09/17

**Down Hole Makeup**

<b>Heads Up:</b> 24.86 FT	<b>Packer 1:</b> 4329.07 FT
<b>Drill Pipe:</b> 4207.62 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4334.07 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4318.49 FT
<b>Collars:</b> 118.74 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4404 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 99.93	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** 3 FT  
*4 1/2-FH*

**Change Over:** 1 FT

**Drill Pipe: (in anchor):** 62.93 FT  
*ID-3 1/2*

**Change Over:** 1 FT

**Perforations: (below):** 31 FT  
*4 1/2-FH*



**Company: Palomino Petroleum,  
Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**

Test Complete

**DATE**

September

**17**

2018

**DST #3**

**Formation:  
Mississippi**

**Test Interval: 4334 -  
4434'**

**Total Depth: 4434'**

Time On: 09:38 09/17

Time Off: 16:23 09/17

Time On Bottom: 12:13 09/17 Time Off Bottom: 14:13 09/17

**Mud Properties**

**Mud Type:** Chemical

**Weight:** 9.3

**Viscosity:** 46

**Filtrate:** 11.2

**Chlorides:** 7,900 ppm





# Company: Palomino Petroleum, Inc.

## Lease: Gantz #1

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**18**  
2018

**DST #4**      **Formation: Mississippi**      **Test Interval: 4426 - 4454'**      **Total Depth: 4555'**  
Time On: 07:50 09/18      Time Off: 13:46 09/18  
Time On Bottom: 09:36 09/18      Time Off Bottom: 11:36 09/18

Electronic Volume Estimate:  
**154'**

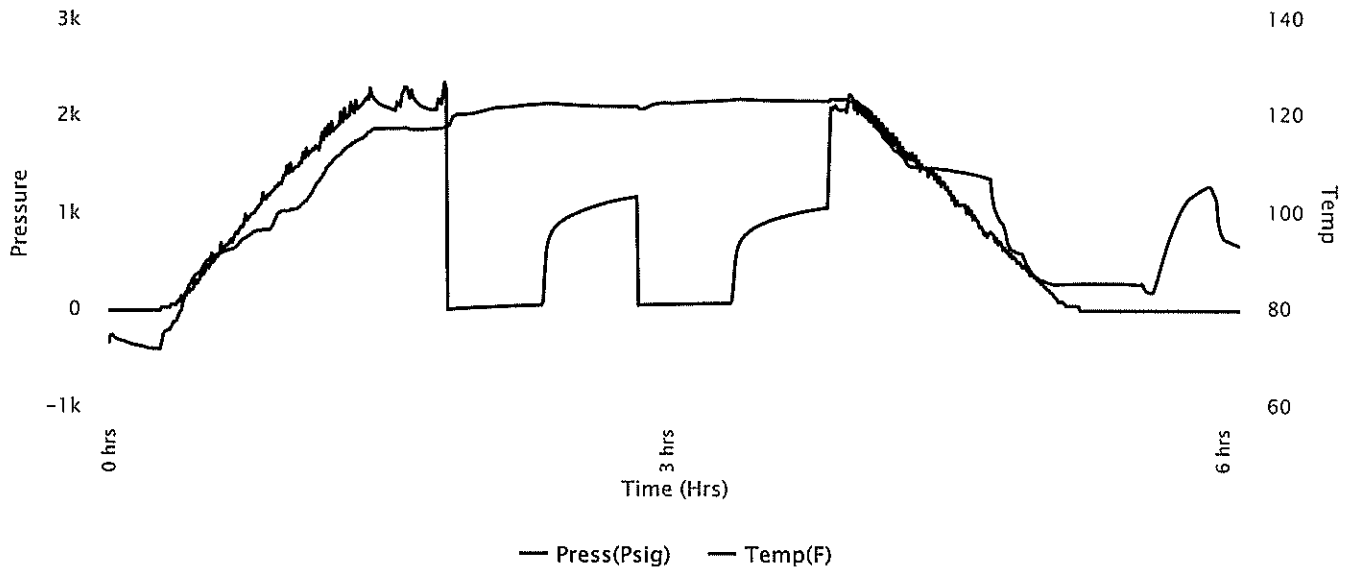
1st Open  
Minutes: 30  
Current Reading:  
3.7" at 30 min  
Max Reading: 3.7"

1st Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading:  
2.9" at 30 min  
Max Reading: 2.9"

2nd Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

Inside Recorder





**Company: Palomino Petroleum, Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
 County: NESS  
 State: Kansas  
 Drilling Contractor: WW Drilling, LLC - Rig 8  
 Elevation: 2361 GL  
 Field Name: Chrif East  
 Pool: WILDCAT  
 Job Number: 231

**Operation:**  
 Test Complete

**DATE**  
 September  
**18**  
 2018

**DST #4**      **Formation: Mississippi**      **Test Interval: 4426 - 4454'**      **Total Depth: 4555'**  
 Time On: 07:50 09/18      Time Off: 13:46 09/18  
 Time On Bottom: 09:36 09/18      Time Off Bottom: 11:36 09/18

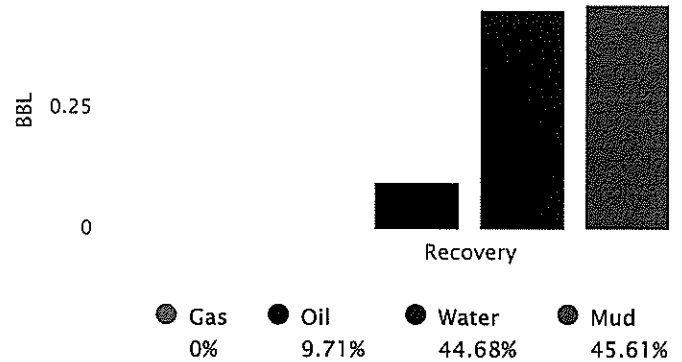
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.07115	O	0	100	0	0
145	0.9578806	SLOCHWCM	0	3	48	49

Total Recovered: 150 ft  
 Total Barrels Recovered: 1.0290306

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	2134	PSI
Initial Flow	12 to 59	PSI
<b>Initial Closed in Pressure</b>	<b>1177</b>	<b>PSI</b>
Final Flow Pressure	61 to 80	PSI
<b>Final Closed in Pressure</b>	<b>1064</b>	<b>PSI</b>
Final Hydrostatic Pressure	2117	PSI
Temperature	124	°F
Pressure Change Initial Close / Final Close	9.6	%



**Company: Palomino Petroleum,  
Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**18**  
2018

<b>DST #4</b>	<b>Formation: Mississippi</b>	<b>Test Interval: 4426 - 4454'</b>	<b>Total Depth: 4555'</b>
Time On: 07:50 09/18	Time Off: 13:46 09/18		
Time On Bottom: 09:36 09/18	Time Off Bottom: 11:36 09/18		

**BUCKET MEASUREMENT:**

1st Open: Surface blow building to a 3 1/2 in. blow.

1st Close: No blow back.

2nd Open: Surface blow building to a 3 in. blow.

2nd Close: No blow back.

**REMARKS:**

Tool Sample: 0% Gas 12% Oil 39% Water 49% Mud

Gravity: 34.3 @ 60 °F

Ph: 7.0

Measured RW: .42 @ 86 degrees °F

RW at Formation Temp: 0.298 @ 124 °F

Chlorides: 12,000 ppm



**Company: Palomino Petroleum, Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**  
Test Complete

**DATE**  
September  
**18**  
2018

**DST #4**      **Formation: Mississippi**      **Test Interval: 4426 - 4454'**      **Total Depth: 4555'**  
Time On: 07:50 09/18      Time Off: 13:46 09/18  
Time On Bottom: 09:36 09/18      Time Off Bottom: 11:36 09/18

**Down Hole Makeup**

<b>Heads Up:</b> 28.11 FT	<b>Packer 1:</b> 4421 FT
<b>Drill Pipe:</b> 4302.8 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4426 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Packer 3:</b> 4454 FT
<b>Collars:</b> 118.74 FT <i>ID-2 1/4</i>	<b>Top Recorder:</b> 4410.42 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Bottom Recorder:</b> 4428 FT
<b>Total Anchor:</b> 28	<b>Below Straddle Recorder:</b> 4551 FT
	<b>Well Bore Size:</b> 7 7/8
	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** 0 FT  
*4 1/2-FH*

**Change Over:** 0 FT

**Drill Pipe: (in anchor):** 0 FT  
*ID-3 1/2*

**Change Over:** 0 FT

**Perforations: (below):** 27 FT  
*4 1/2-FH*

**STRADDLE**

**Straddle Packer(s):** 1 FT

**Change Over:** 1 FT

**Drill Pipe:** 94.34 FT  
*ID-3 1/2"*

**Change Over:** 1 FT

**Perforations (in tail pipe):** 5 FT  
*4 1/2-FH*



**Company: Palomino Petroleum,  
Inc.**

**Lease: Gantz #1**

SEC: 13 TWN: 19S RNG: 25W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 8  
Elevation: 2361 GL  
Field Name: Chrif East  
Pool: WILDCAT  
Job Number: 231

**Operation:**

Test Complete

**DATE**

September

**18**

2018

DST #4

Formation:  
Mississippi

Test Interval: 4426 -  
4454'

Total Depth: 4555'

Time On: 07:50 09/18

Time Off: 13:46 09/18

Time On Bottom: 09:36 09/18 Time Off Bottom: 11:36 09/18

**Mud Properties**

Mud Type: Chemical

Weight: 9.3

Viscosity: 46

Filtrate: 11.2

Chlorides: 7,900 ppm



# Company: Palomino Petroleum, Inc.

## Lease: McCreight Trust #2

SEC: 6 TWN: 20S R<sub>NG</sub>: 22W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 14  
Elevation: 2238 GL  
Field Name: Riverside North  
Pool: Pool Ext  
Job Number: 234

**Operation:**  
Test Complete

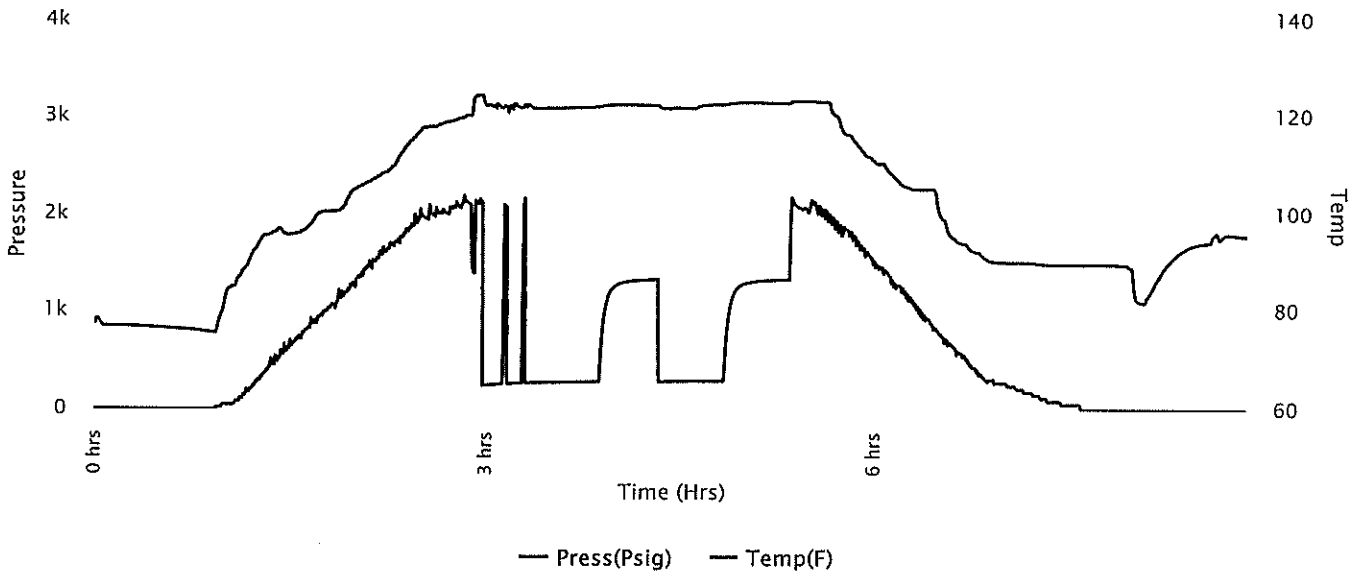
**DATE**  
September  
**19**  
2018

**DST #1**      **Formation:** Mississippi      **Test Interval:** 4309 - 4407'      **Total Depth:** 4514'  
Time On: 07:52 09/19      Time Off: 13:19 09/19  
Time On Bottom: 07:52 09/19      Time Off Bottom: 09:52 09/19

Electronic Volume Estimate:  
141'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: 2.8" at 30 min	Current Reading: 0" at 30 min	Current Reading: 3.1" at 30 min	Current Reading: 0" at 30 min
Max Reading: 2.8"	Max Reading: 0"	Max Reading: 3.1"	Max Reading: 0"

Inside Recorder





**Company: Palomino Petroleum, Inc.**

**Lease: McCreight Trust #2**

SEC: 6 TWN: 20S RNG: 22W  
 County: NESS  
 State: Kansas  
 Drilling Contractor: WW Drilling, LLC - Rig 14  
 Elevation: 2238 GL  
 Field Name: Riverside North  
 Pool: Pool Ext  
 Job Number: 234

**Operation:**  
 Test Complete

**DATE**  
 September  
**19**  
 2018

**DST #1**      **Formation: Mississippi**      **Test Interval: 4309 - 4407'**      **Total Depth: 4514'**  
 Time On: 07:52 09/19      Time Off: 13:19 09/19  
 Time On Bottom: 07:52 09/19      Time Off Bottom: 09:52 09/19

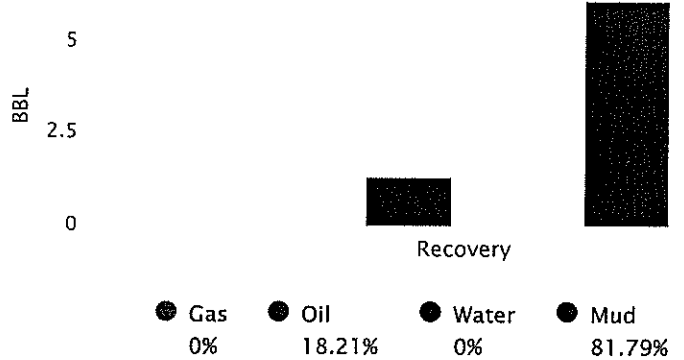
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
20	0.2846	O	0	100	0	0
585	7.2625583	SLOCM	0	15	0	85

Total Recovered: 605 ft  
 Total Barrels Recovered: 7.5471583

**Reversed Out**  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	2118	PSI
Initial Flow	282 to 296	PSI
<b>Initial Closed in Pressure</b>	<b>1340</b>	<b>PSI</b>
Final Flow Pressure	298 to 303	PSI
<b>Final Closed in Pressure</b>	<b>1338</b>	<b>PSI</b>
Final Hydrostatic Pressure	2109	PSI
Temperature	124	°F
Pressure Change Initial Close / Final Close	0.2	%



**Company: Palomino Petroleum, Inc.**

**Lease: McCreight Trust #2**

SEC: 6 TWN: 20S RNG: 22W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rlg 14  
Elevation: 2238 GL  
Field Name: Riverside North  
Pool: Pool Ext  
Job Number: 234

**Operation:**  
Test Complete

**DATE**  
September  
**19**  
2018

<b>DST #1</b>	<b>Formation:</b> Mississippi	<b>Test Interval:</b> 4309 - 4407'	<b>Total Depth:</b> 4514'
	Time On: 07:52 09/19	Time Off: 13:19 09/19	
	Time On Bottom: 07:52 09/19	Time Off Bottom: 09:52 09/19	

**BUCKET MEASUREMENT:**

1st Open: Surface blow building to a 2 1/2 in. blow.  
1st Close: No blow back.  
2nd Open: Surface blow building to a 3 in. blow.  
2nd Close: No blow back.

**REMARKS:**

Tool Sample: 0% Gas 33% Oil 0% Water 67% Mud  
Gravity: 34.2 @ 60 °F





**Company: Palomino Petroleum, Inc.**

SEC: 6 TWN: 20S RNG: 22W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC - Rig 14  
Elevation: 2238 GL  
Field Name: Riverside North  
Pool: Pool Ext  
Job Number: 234

**Lease: McCreight Trust #2**

**Operation:**  
Test Complete

**DATE**  
September  
**19**  
2018

**DST #1**      **Formation:** Mississippi      **Test Interval:** 4309 - 4407'      **Total Depth:** 4514'  
Time On: 07:52 09/19      Time Off: 13:19 09/19  
Time On Bottom: 07:52 09/19      Time Off Bottom: 09:52 09/19

**Down Hole Makeup**

<b>Heads Up:</b> 31.35 FT	<b>Packer 1:</b> 4303.8 FT
<b>Drill Pipe:</b> 4193.51 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4308.8 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Packer 3:</b> 4407 FT
<b>Collars:</b> 114.07 FT <i>ID-2 1/4</i>	<b>Top Recorder:</b> 4293.22 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Bottom Recorder:</b> 4378 FT
<b>Total Anchor:</b> 98.2	<b>Below Straddle Recorder:</b> 4505 FT
<b>Anchor Makeup</b>	<b>Well Bore Size:</b> 7 7/8
<b>Packer Sub:</b> 1 FT	<b>Surface Choke:</b> 1"
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	<b>Bottom Choke:</b> 5/8"
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 63.20 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 30 FT <i>4 1/2-FH</i>	
<b><u>STRADDLE</u></b>	
<b>Straddle Packer(s):</b> 1 FT	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe:</b> 94.85 FT <i>ID-3 1/2"</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations (in tail pipe):</b> 10 FT <i>4 1/2-FH</i>	



**Company: Palomino Petroleum,  
Inc.**

**Lease: McCreight Trust #2**

SEC: 6 TWN: 20S RING: 22W  
County: NESS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 14  
Elevation: 2238 GL  
Field Name: Riverside North  
Pool: Pool Ext  
Job Number: 234

**Operation:**  
Test Complete

**DATE**  
September  
**19**  
2018

<b>DST #1</b>	<b>Formation:</b> Mississippi	<b>Test Interval:</b> 4309 - 4407'	<b>Total Depth:</b> 4514'
	Time On: 07:52 09/19	Time Off: 13:19 09/19	
	Time On Bottom: 07:52 09/19	Time Off Bottom: 09:52 09/19	

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.3      **Viscosity:** 51      **Filtrate:** 9.6      **Chlorides:** 7,300 ppm

Evans & Sells  
Petroleum Geology Ltd.

815 S. Topeka

Mane City, MO 64530

(785) 793-5943

REPLY TO: 1000 W  
SUNSHINE DR. (IN SUPPLE 100)

OPERATOR Palomino Petroleum

LEASE Gantz #1

FIELD \_\_\_\_\_

LOCATION 526' E 5 L & 1212 FUL

SECS. 13 T1E. 19S R1E 25W

COUNTY Ness STATE KS

WELL NO WW Drilling Rig # 8

DATE 9/10/18 TO 9/18/18

DEPT 4554 TO 4555

DEPTH 3400 RTD

DEPTH 3400' RTD

DEPTH 3400' RTD

DEPTH 3500' RTD

DEPTH 3350' Chemical

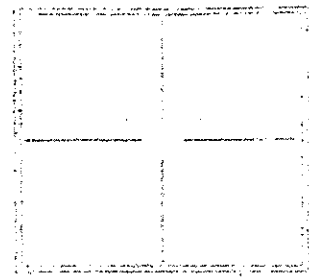
TEL 15-135-24022

Anhydrite	1645 (-1721)	1650 (-1716)
Topeka	3451 (-1085)	3449 (-1083)
Lansing	3802 (-1436)	3803 (-1435)
BIRC	4173 (-1767)	4174 (-1768)
Marmaton	4172 (-1806)	4168 (-1802)
Lawrence	4238 (-1872)	4242 (-1876)
Pl. Scott	4312 (-1946)	4312 (-1946)
Cherokee sh	4333 (-1971)	4337 (-1971)
Mississippian	4400 (-2024)	4410 (-2044)

DEPTH  
2344'  
RTD  
2361'  
Measurement from  
Point KB

CHINA RECORD  
8.5/8" @  
216'  
N/A

WELL LOG SUMMARY  
CND, DFL,  
Micro



CORRECT

100'

100'

3400  
- 10  
- 20  
- 30  
- 40  
50  
- 60  
- 70  
- 80  
- 90  
3500  
- 10  
- 20  
- 30  
- 40  
50  
- 60  
- 70  
- 80  
- 90  
3600  
- 10  
- 20

Wiederholung des 1. u. 2. Teils

Wiederholung des 1. Teils

Wiederholung des 1. Teils

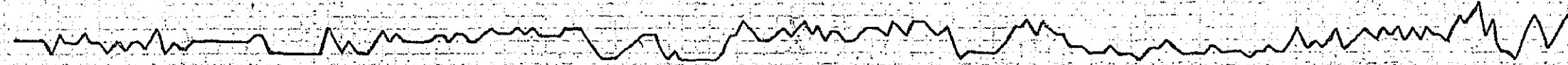
Wiederholung des 1. Teils

Wiederholung des 1. Teils

Wiederholung des 1. Teils

Wiederholung des 1. Teils

Wiederholung des 1. Teils



40  
50  
60  
70  
80  
90  
7700  
10  
20  
30  
40  
50  
60  
70  
3800  
10  
20  
30  
40  
50  
60  
70

High gamma - 14.5, low gamma - 1.5  
Chalky, n.s. 1.5, 1.5

High gamma - 14.5, low gamma - 1.5  
Chalky, n.s. 1.5, 1.5

High gamma - 14.5, low gamma - 1.5  
Chalky, n.s. 1.5, 1.5

High gamma - 14.5, low gamma - 1.5  
Chalky, n.s. 1.5, 1.5

Heather 3760  
(-13.94)

Sh. bit carb

High gamma - 14.5, low gamma - 1.5  
Chalky, n.s. 1.5, 1.5

Mud ✓ @ 3765  
wt. - 8.9  
vis. - 49  
LW - 9.6  
CL - 5.600  
LGM - I#

High gamma - 14.5, low gamma - 1.5  
Chalky, n.s. 1.5, 1.5

Leasing 3803  
(-14.37)

High gamma - 14.5, low gamma - 1.5  
Chalky, n.s. 1.5, 1.5

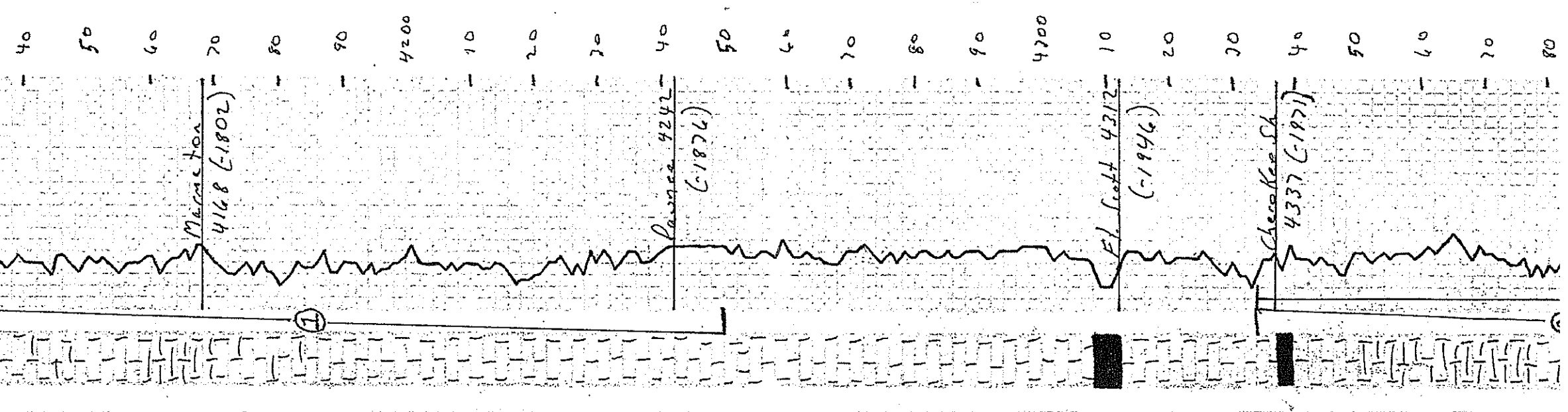
High gamma - 14.5, low gamma - 1.5  
Chalky, n.s. 1.5, 1.5

High gamma - 14.5, low gamma - 1.5  
Chalky, n.s. 1.5, 1.5

High gamma - 14.5, low gamma - 1.5  
Chalky, n.s. 1.5, 1.5

High gamma - 14.5, low gamma - 1.5  
Chalky, n.s. 1.5, 1.5





DST # 2 4122' - 4250'  
 20-30-30-30  
 Rec. 20' mud  
 FF-3/4" M. Return  
 FF-Dead  
 HP-1973# 1972#  
 DFP-15# 23# FFP-25#-30#  
 FSP-223# FSP-265#

Sh. 997-61K  
 dense, sh. 997-61K, no oil, no gas, 255 lb

Mud ✓ @ 4193'  
 wt. - 9.3  
 vis - 51  
 ul - 10.0  
 chl - 6,500  
 lcm - I#

Sh. 997-61K  
 dense, sh. 997-61K, no oil, no gas, 255 lb

Sh. 997-61K  
 dense, sh. 997-61K, no oil, no gas, 255 lb

Sh. 997-61K  
 dense, sh. 997-61K, no oil, no gas, 255 lb

Sh. 997-61K  
 dense, sh. 997-61K, no oil, no gas, 255 lb

Sh. AA, cherty

Mud ✓ @ 4315'  
 wt. - 9.1  
 vis - 49  
 ul - 10.8  
 chl - 7,800  
 lcm - I#

Sh. 997-61K  
 dense, sh. 997-61K, no oil, no gas, 255 lb

Sh. 997-61K  
 dense, sh. 997-61K, no oil, no gas, 255 lb

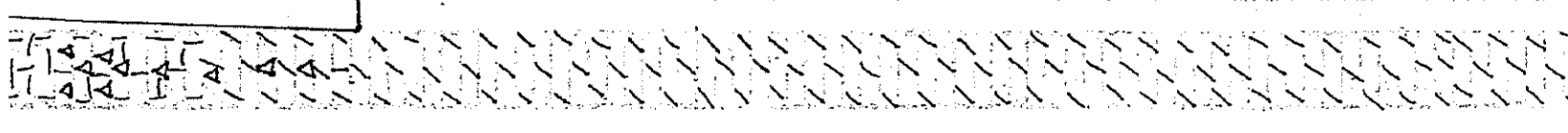
Sh. 997-61K

Sh. 997-61K  
 dense, sh. 997-61K, no oil, no gas, 255 lb

Sh. 997-61K  
 dense, sh. 997-61K, no oil, no gas, 255 lb

Sh. AA

DST # 2 4334' - 4425'  
 20-30-30-30  
 Rec. 6' TF  
 FF-1"  
 FF-3/4" M. Return



90  
4400  
10  
20  
30  
40  
50  
60  
70  
80  
90  
4500  
10  
20  
30  
40  
50

Sh. var color  
col. var. to ...  
col. ...  
col. ...  
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NF-206) # 2064 #  
IFP-13 # 17 # FFP-19 # 22 #  
IFP-22 # 11 # FFP-25 # 4 #  
OST # 3 4334'-4434'  
Rec. 55' 7" 30-30-30-30  
#F-1 1/2" N. Return  
FF-1" 10' co (100900)  
45' 50 cm (16900, 9490m)  
HP-2089 # 2086 #  
IFP-15 # 27 # FFP-22 # 35 #  
IFP-15 # 27 # FFP-22 # 35 #  
OST # 4 4426'-4454'  
Rec. 150' 7" 30-30-30-30  
FR-7 1/4" N. Return  
FF-3" 7' co (100900)  
145' 50 cm (3900, 48900, 4990m)  
HP-2089 # 211 #  
IFP-12 # 57 # PFP-61 # 80 #  
IFP-11 # 11 # FFP-10 # 64 #  
col. ...  
col. ...  
col. ...  
col. ...  
col. ...  
col. ...  
col. ...  
col. ...

RTD 45-54

(-2188)